# M-627V/677V

# SERVICE MANUAL

*US Model*
*Canadian Model*
*M-627V/677V*
*AEP Model*
*M-627V*

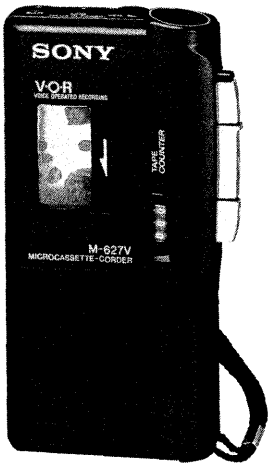



**Photo: M-627V**

| | |
|---|---|
| Model Name Using Similar Mechanism | NEW |
| Tape Transport Mechanism Type | MZ-627V-14 |

## SPECIFICATIONS

**Tape**
(MICROCASSETTE)™ (normal position type)
**Recording system**
2-track 1-channel monaural
**Speaker**
Approx. 3.6 cm (1 7/16 in.) dia.
**Tape speed**
2.4 cm/s (15/16 ips), 1.2 cm/s (15/32 ips)
**Frequency range**
250 – 4,000 Hz
**Input**
Microphone input jack (minijack/PLUG IN POWER) sensitivity 0.24 mV for 3 kilohms or lower impedance microphone
**Output**
Earphone jack (minijack) for 8 – 300 ohms earphone
**Power output**
160 mW (at 10% harmonic distortion)
**Battery life (recording)**
SONY SUM-3 (NS) 5.5H
SONY ALKALINE AM3 (N) 14H
**Power requirements**
- Two R6 (size AA) batteries: 3 V DC
- Sony AC-E30L AC power adaptor (not supplied): 120 V AC, 60 Hz
- Sony DCC-E130L car battery cord (not supplied): 12 V car battery

**Dimensions (w/h/d)**
Approx. 66.7 x 120.8 x 25 mm (2 3/4 x 4 7/8 x 1 in.) incl. projecting parts and controls
**Mass**
Approx. 180 g (6.4 oz) incl. batteries
**Supplied accessories**
AC power adaptor (1, M-677V only)
Battery charge adaptor (1, M-677V only)
Rechargeable batteries (2, M-677V only)
Microcassette tape MC-30 (1, M-627V AEP only)
Carrying case (1, M-627V AEP only)
R6 (size AA) batteries (2, M-627V AEP only)

Design and specifications are subject to change without notice.

MICROCASSETTE™CORDER

SONY®

# SERVICING NOTE

### Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

### Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

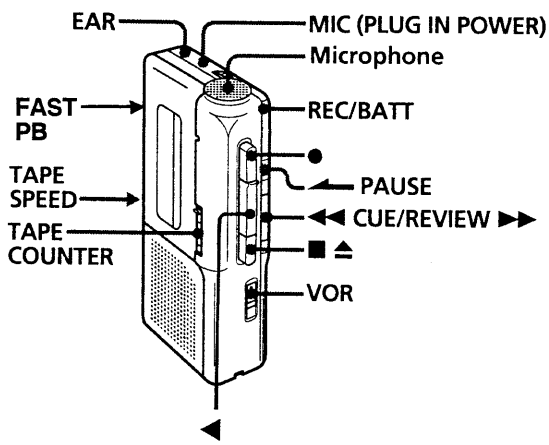
**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

**LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.**

# SECTION 1
# GENERAL

This section is extracted from instruction manual.

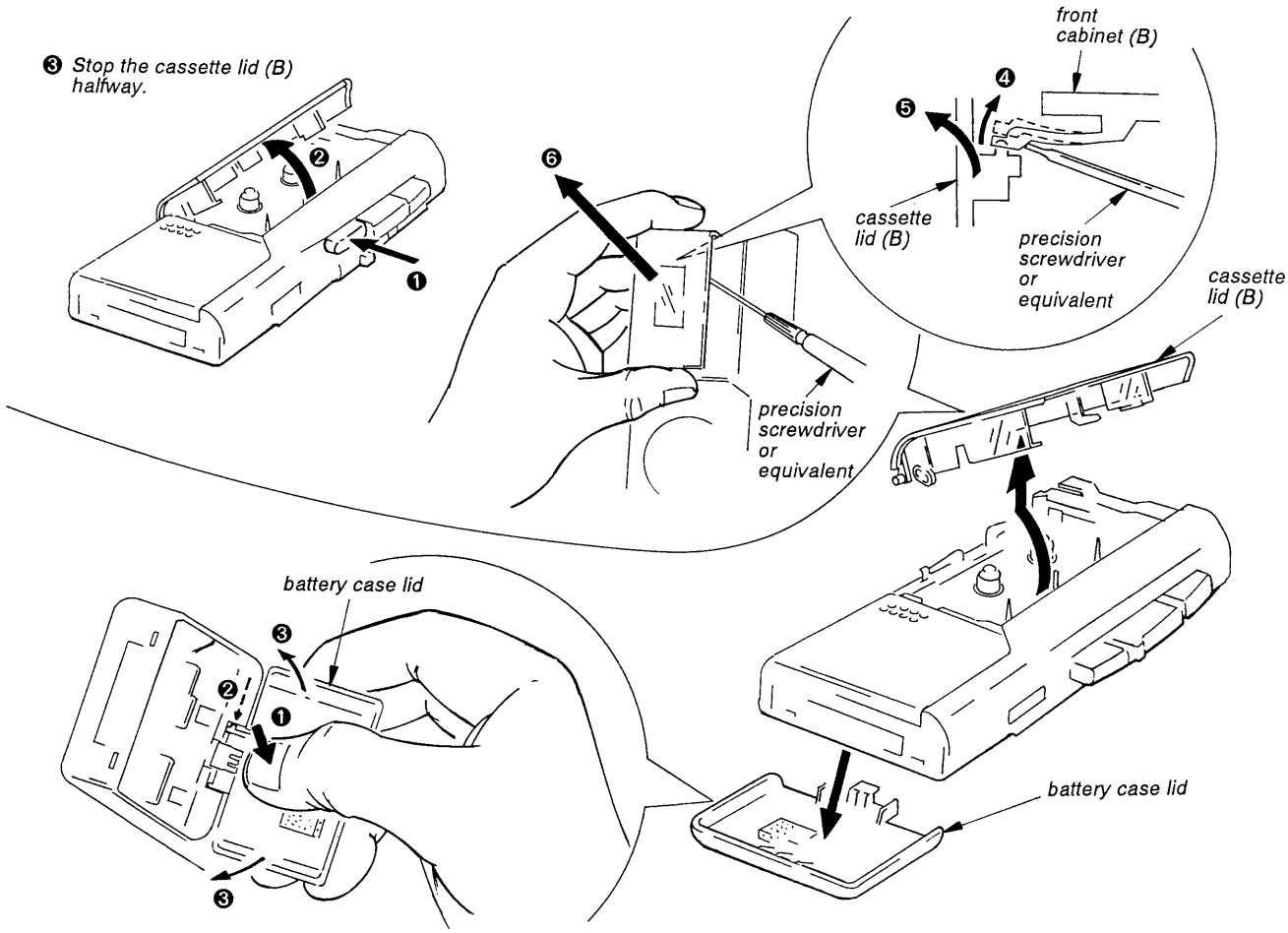
- **Parts Identification**



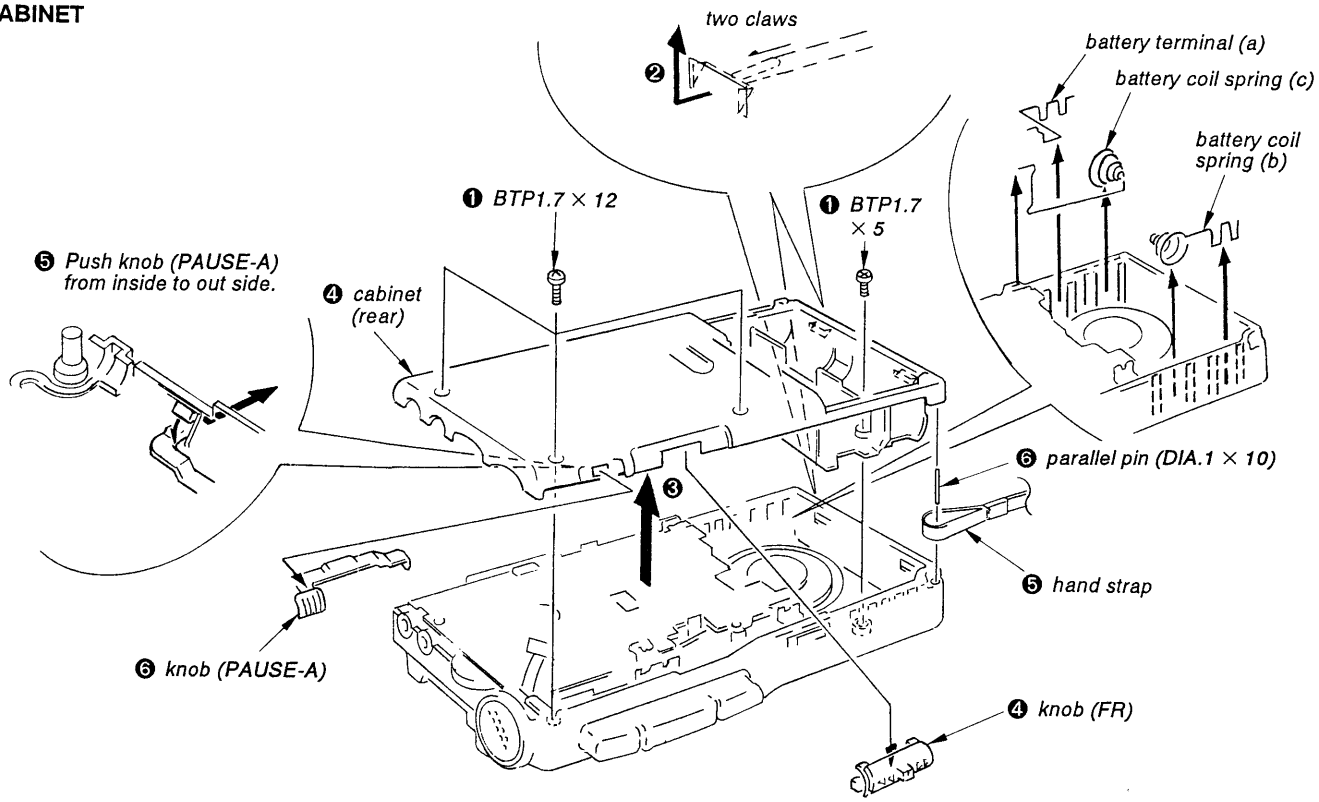
# SECTION 2
# DISASSEMBLY

**Note:** Follow the disassembly procedure in the numerical order given.

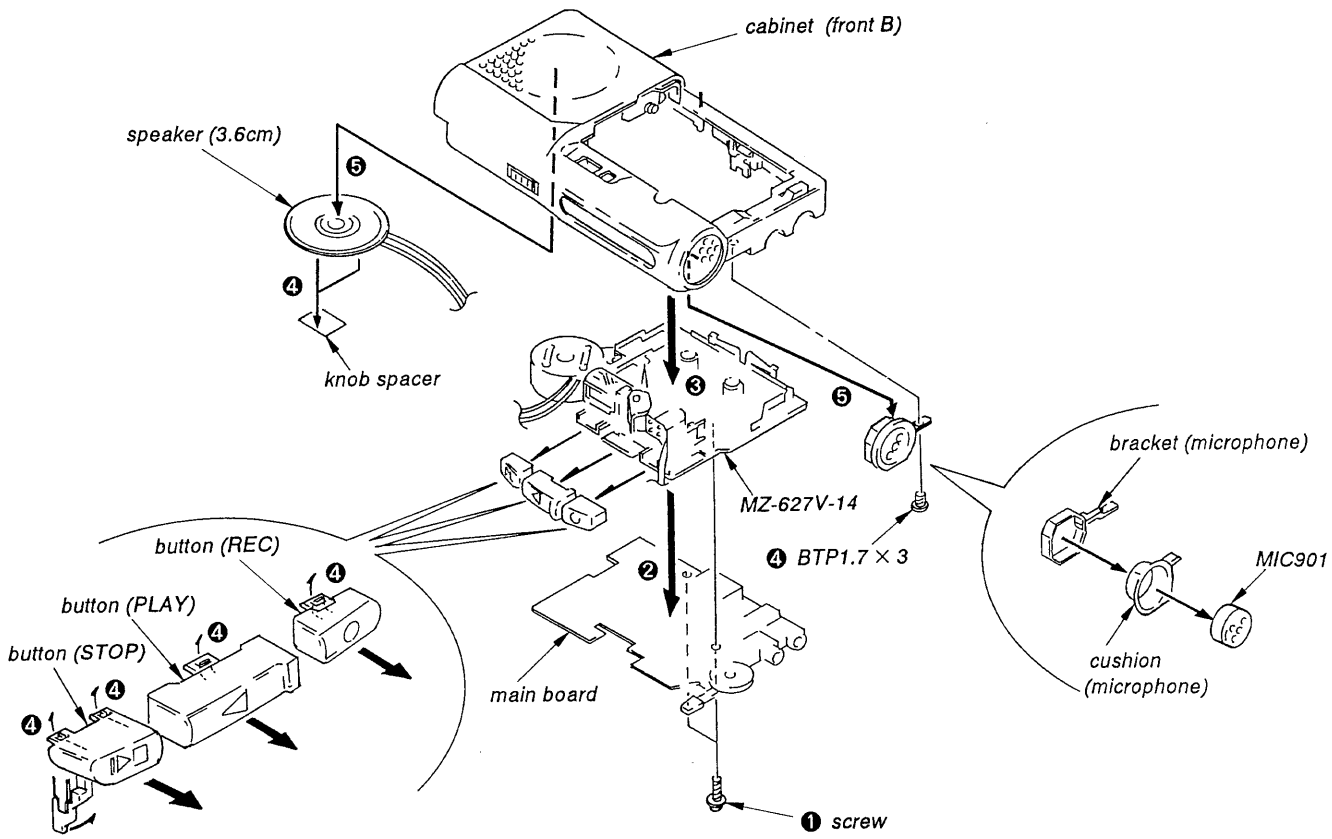
**CASSETTE AND BATTERY LIDS**



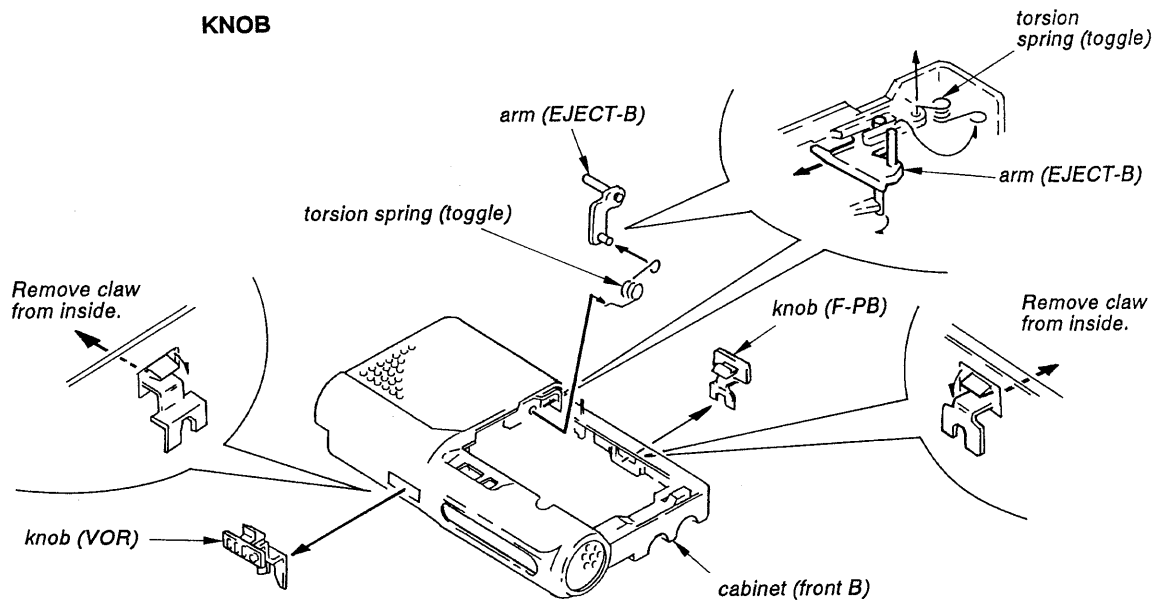

**CABINET**


two claws
battery terminal (a)
battery coil spring (c)
battery coil spring (b)
❶ BTP1.7 × 12
❶ BTP1.7 × 5
❺ Push knob (PAUSE-A) from inside to out side.
❹ cabinet (rear)
❻ parallel pin (DIA.1 × 10)
❺ hand strap
❻ knob (PAUSE-A)
❹ knob (FR)

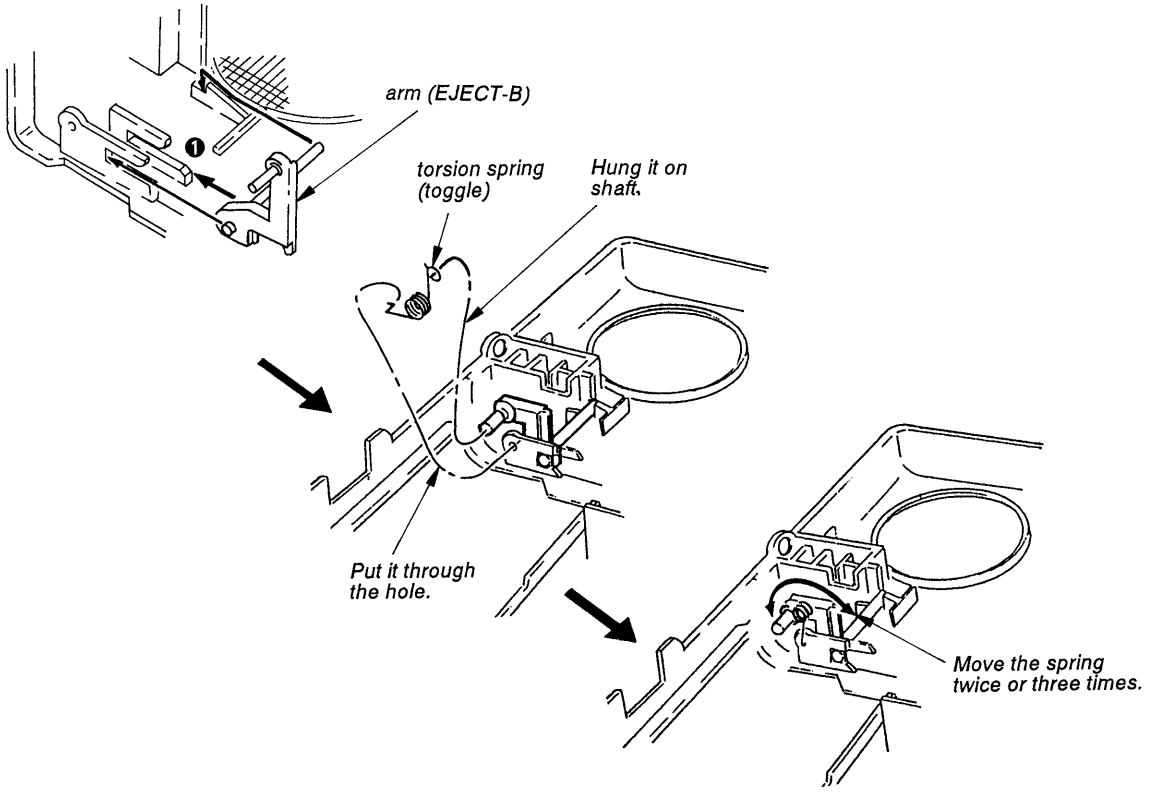
## MECHANISM DECK



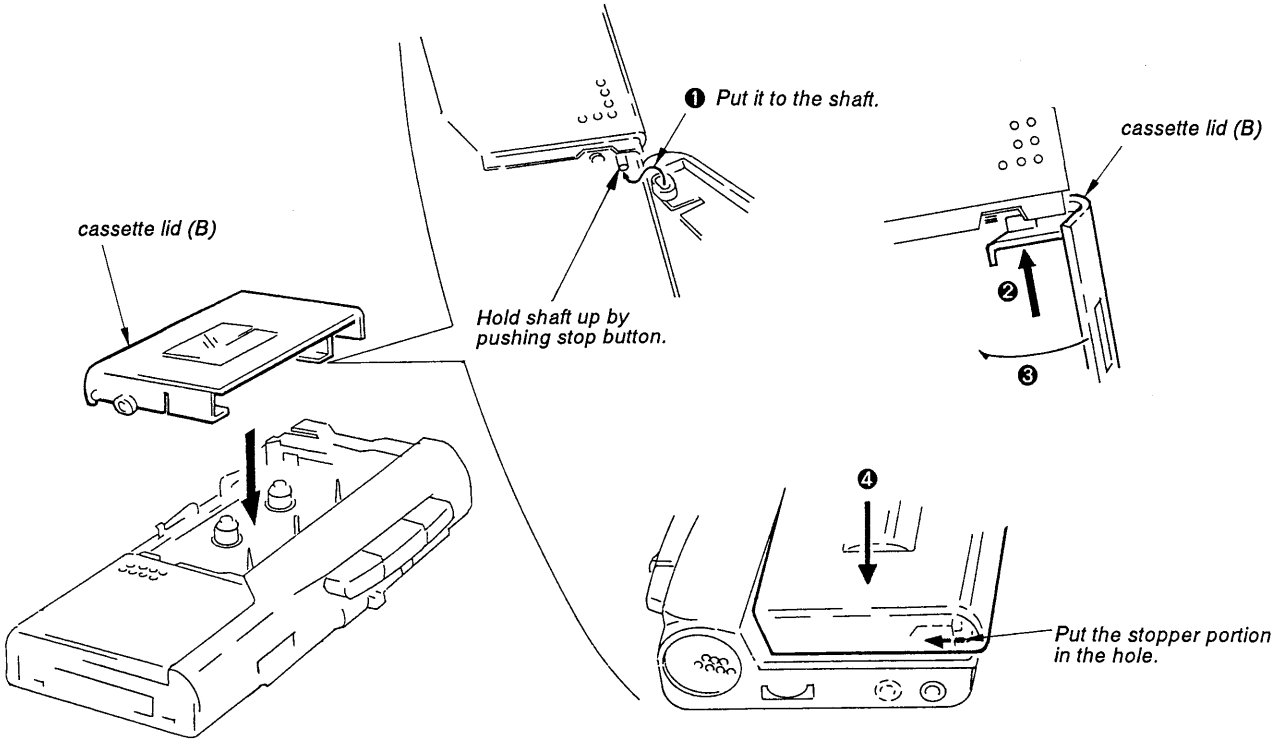

## KNOB



**ARM (EJECT-B) FITTING**




**CASSETTE LID (B) FITTING**



# SECTION 3
# ADJUSTMENTS

## 2-1. MECHANICAL ADJUSTMENTS AND MEASUREMENT

**PRECAUTION**

1. Clean the following parts with a denatured-alcohol-moistened swab:
   record/playback/erase head  pinch roller
   rubber belts  capstan
2. Demagnetize the record/playback head with a head demagentizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
   Power supply voltage : 3 Vdc
   TAPE SPEED switch : 2.4 cm

**Torque Measurement**

| Torqu | Meter Reading | Torqu Meter |
|---|---|---|
| Forward | 5~13g • cm (0.07 – 0.180oz • inch) | CQ-103M |
| Fast Forward | 5~13g • cm (0.07 – 0.180oz • inch) | CQ-201M |
| Rewind | more than 15 g • cm (more than 0.21oz • inch) | CQ-201M |

**Tape Tension Measurement**

| Meter | Meter Reading |
|---|---|
| CQ-403M | more than 30 g (more than 0.42 oz) |

## 2-2. ELECTRICAL ADJUSTMENTS

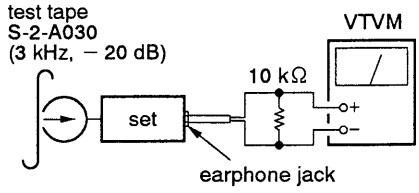
**Test Tape**

| Type | Signal | Used for | Tape Speed (cm/s) |
|---|---|---|---|
| WS-12 | 3 kHz, – 10 dB | Tape Speed Adjustment | 1.2 |
| WS-24 | | | 2.4 |
| S-2-A030 | 3 kHz, – 20 dB | Head Azimuth Adjustment | 2.4 |

### Record/Playback Head Azimuth Adjustment

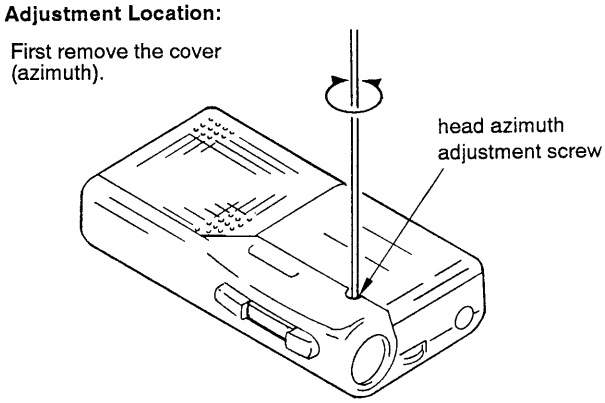
**setting:**
VOLUME control : mechanical mid
TAPE SPEED switch : 2.4 cm/s
VOR switch : OFF

**Procedure:**
1. Mode : playback




2. Turn the adjustment screw to obtain the maximum reading on VTVM.
   **Note:** Several peaks may appear, but the maximum.

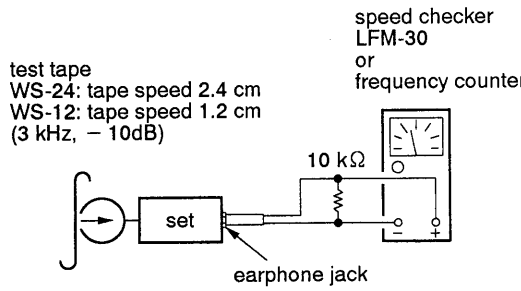
**Adjustment Location:**




### Tape Speed adjustment

**Setting:**
VOLUME control : mechanical mid
VOR switch : OFF

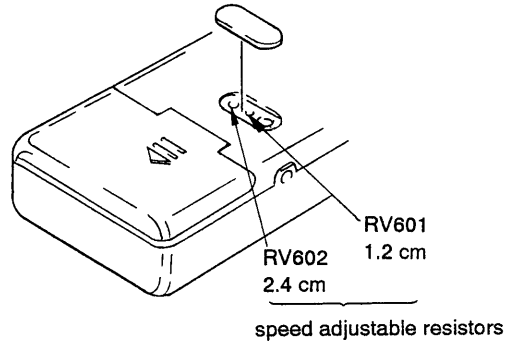
**Procedure:**
- Reform 2.4 cm /s speed adjustment before 1.2 cm/s speed adjustment
  mode : playback




| Tape Speed | Speed checker | Frequency counter |
|---|---|---|
| 2.4 cm/s | ± 3% | 3,000 ± 90 Hz |
| 1.2 cm/s | ± 3% | 3,000 ± 90 Hz |

Frequency difference between the beginning and the end of the tape should be within 0.5%.
2.4cm/s (15 Hz)
1.2 cm/s (15 Hz)

**Adjustment Location:**



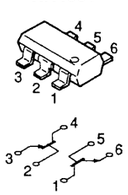
# SECTION 4
# DIAGRAMS

## • Semiconductor Location

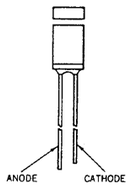
| Ref. No. | Location |
|---|---|
| D101 | E-12 |
| D102 | E-13 |
| D103 | D-11 |
| D401 | K-5 |
| IC101 | H-11 |
| IC601 | I-18 |
| IC701 | G-13 |
| Q101 | D-10 |
| Q102 | E-10 |
| Q103 | F-11 |
| Q401 | K-17 |
| Q601 | K-19 |
| Q701 | G-14 |
| Q702 | L-18 |
| Q703 | J-19 |

## • Semiconductor Lead Layouts

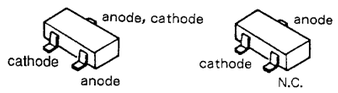
**XN4312**
**XN4601**



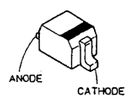

**GL-8PR42**



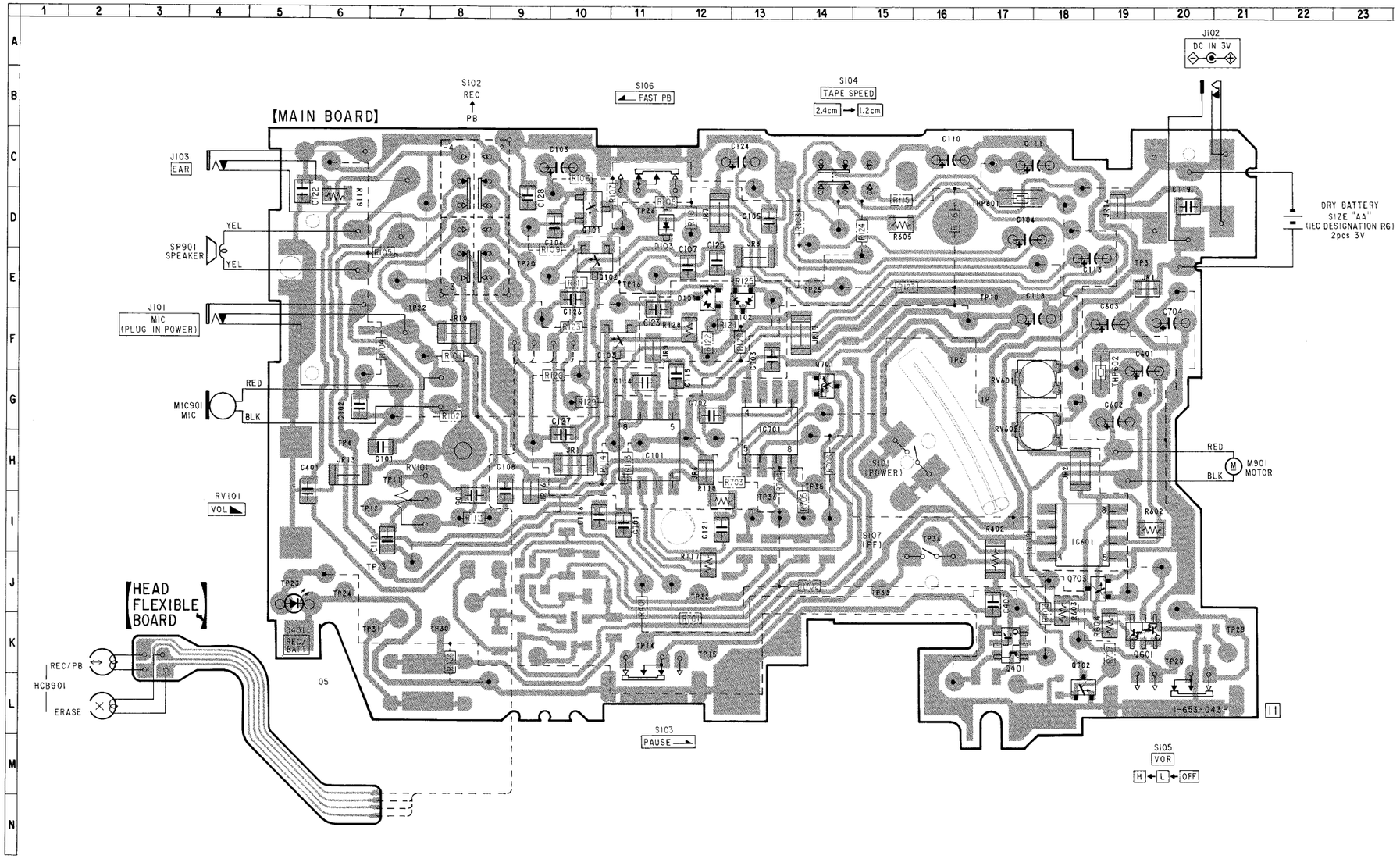

**DA204U**




**1SS335**




## 4-1. PRINTED WIRING BOARD




### Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- : printed resistor.
- B + : B + Line.
- : panel designation.
- : adjustment for repair.
- Total current is measured with no cassette installed.
- Power voltage is dc 3 V and fed with regulated dc power supply from external power voltage jack.
- Voltages are dc with respect to ground under no-signal conditions.
  no mark : PLAY
  ( ) : REC
- Voltages are taken with a VOM (10 MΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Signal path.
  : PB
  : REC

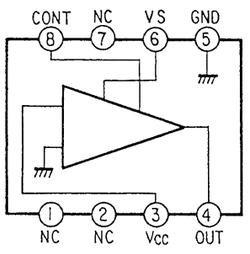
### Note on Printed Wiring Board:

- : parts extracted from the component side.
- : Through hole.
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.
- : printed resistor of the rear side.

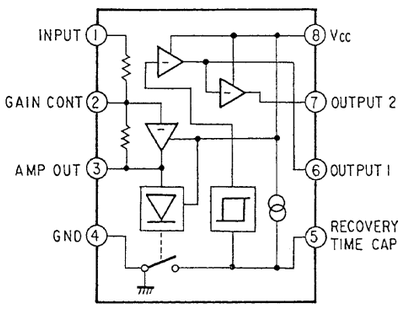


## • IC Block Diagrams

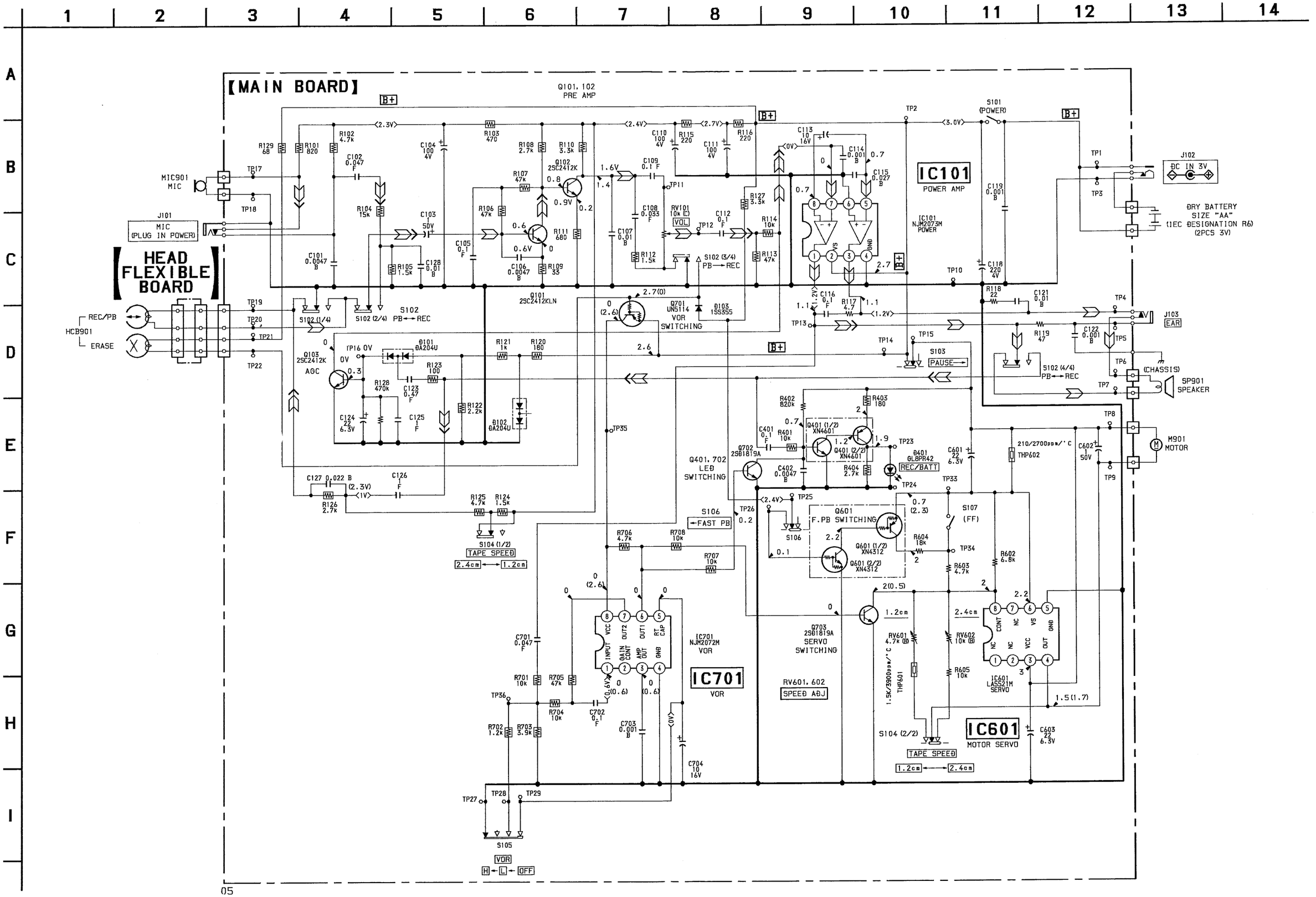
**LA5521M**




**NJM2072M**



## 4-2. SCHEMATIC DIAGRAM

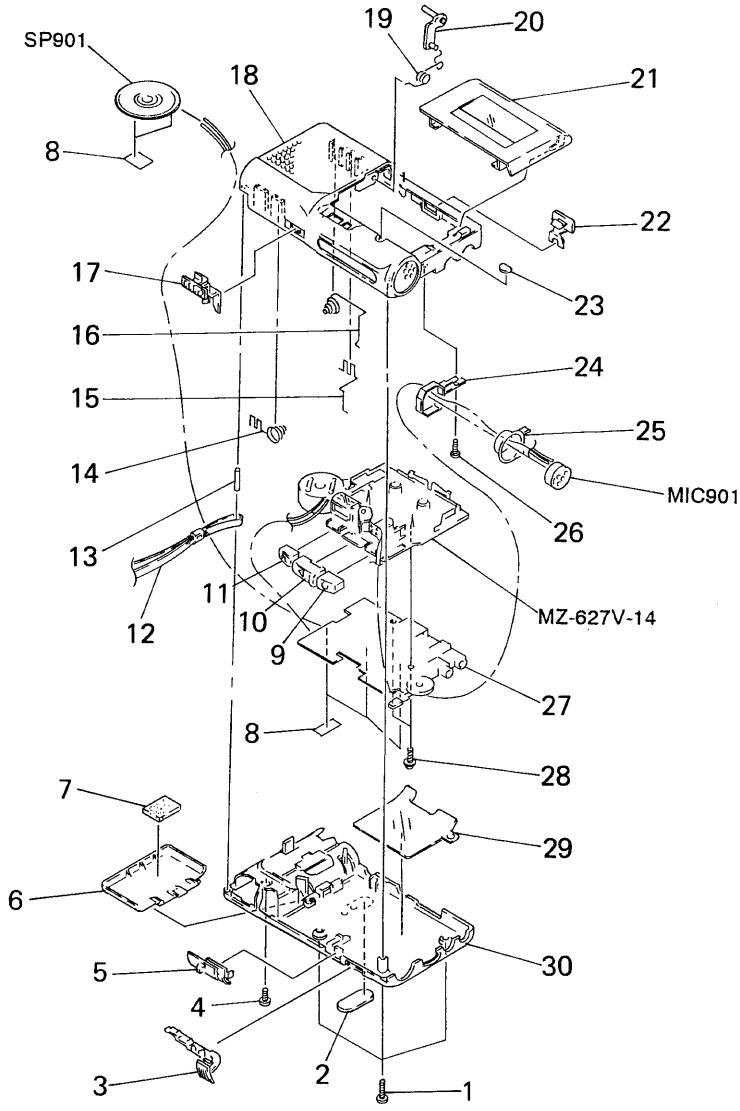


# SECTION 5
# EXPLODED VIEWS

NOTE:

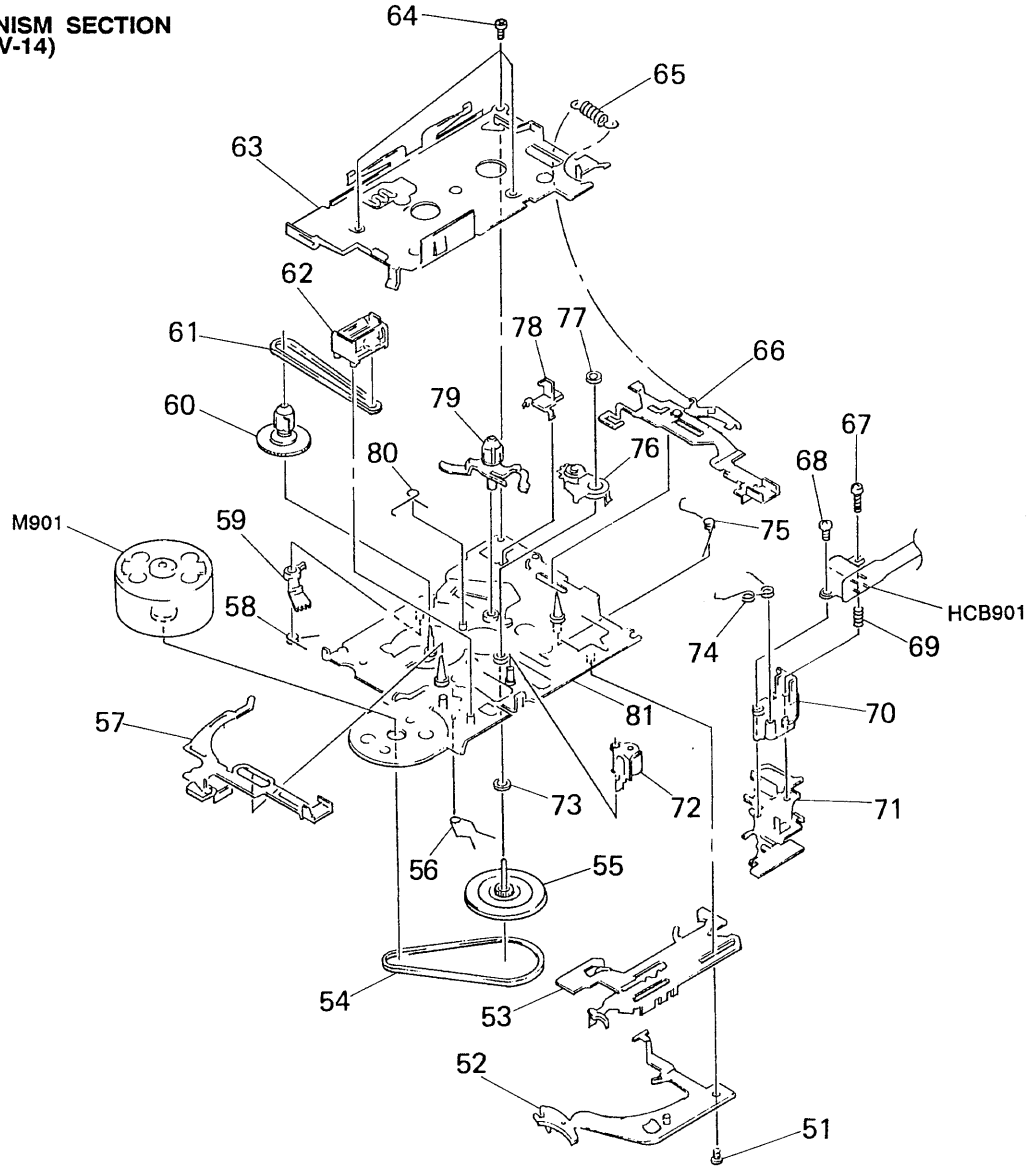
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

## (1) GENERAL SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | 3-318-203-51 | SCREW (B1.7X12), TAPPING | |
| 2 | 3-358-363-11 | PLATE, BLIND | |
| 3 | 3-914-938-01 | KNOB (PAUSE-A) (PAUSE) | |
| 4 | 3-318-203-72 | SCREW (B1.7X5), TAPPING | |
| 5 | 3-914-939-01 | KNOB (FR) | |
| 6 | 3-914-950-01 | LID, BATTERY CASE | |
| * 7 | 3-914-930-01 | CUSHION (BATTERY CASE LID) | |
| 8 | 3-831-441-XX | SPACER, KNOB | |
| 9 | 3-914-948-11 | BUTTON (REC) | |
| 10 | 3-914-947-11 | BUTTON (PLAY) | |
| 11 | 3-914-946-11 | BUTTON (STOP) | |
| 12 | 3-328-319-11 | STRAP, HAND | |
| 13 | 3-669-481-07 | PIN (DIA.1X10), PARALLEL | |
| 14 | 3-914-934-01 | SPRING (B), BATTERY COIL | |
| 15 | 3-914-933-01 | TERMINAL (A), BATTERY | |
| 16 | 3-914-932-01 | SPRING (C), BATTERY COIL | |
| 17 | 3-914-879-01 | KNOB (VOR) | |
| 18 | X-3368-579-1 | CABINET (FRONT) (B3) ASSY | |
| 19 | 3-914-931-01 | SPRING (TOGGLE), TORSION | |
| 20 | 3-914-936-01 | ARM (EJECT-B) | |
| 21 | X-3368-568-1 | LID (B2) ASSY, CASSETTE (M-677V) | |
| 21 | X-3368-576-1 | LID (B1) ASSY, CASSETTE (M-627V) | |
| 22 | 3-914-878-01 | KNOB (F-PB) (FAST PB) | |
| 23 | 3-914-952-01 | COVER (AZIMUTH) | |
| * 24 | 3-914-949-01 | BRACKET (MICROPHONE) | |
| * 25 | 3-914-937-01 | CUSHION (MICROPHONE) | |
| 26 | 3-318-382-31 | SCREW (1.7X3), TAPPING | |
| * 27 | A-3016-592-A | MAIN BOARD, COMPLETE | |
| 28 | 3-342-156-51 | SCREW | |
| 29 | 3-914-929-01 | PAPER, SHIELD | |
| * 30 | 3-914-958-21 | CABINET (REAR) | |
| MIC901 | 1-542-136-11 | MICROPHONE, ELECTRET CONDENSER | |
| SP901 | 1-544-657-12 | SPEAKER (3.6CM) | |

## (2) MECHANISM SECTION (MZ-627V-14)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | 3-704-243-11 | SCREW (P1.7X2.0) | |
| * 52 | 3-914-920-01 | PLATE (FR), LOCK | |
| * 53 | 3-914-919-01 | SLIDER (FR) | |
| 54 | 3-377-420-11 | BELT | |
| 55 | X-3368-702-1 | FLYWHEEL (1.3) ASSY | |
| 56 | 3-914-903-01 | SPRING (FR), TORSION | |
| * 57 | X-3368-486-1 | LEVER (STOP) ASSY | |
| 58 | 3-914-906-01 | SPRING (S.OFF), TORSION | |
| 59 | 3-914-915-01 | ARM (S.OFF) | |
| 60 | X-3368-582-1 | REEL ASSY, T | |
| 61 | 3-343-948-01 | BELT | |
| 62 | 1-548-579-21 | COUNTER, TAPE (SMALL TYPE) | |
| * 63 | 3-914-923-01 | COVER, MD | |
| 64 | 3-366-892-11 | SCREW (M1.4X1.4) | |
| 65 | 3-914-908-01 | SPRING (REC LOCK), TENSION | |
| * 66 | X-3368-583-1 | LEVER (REC) ASSY | |
| 67 | 3-703-816-82 | SCREW (M1.4X6.0), SPECIAL HEAD | |
| 68 | 3-704-245-42 | SCREW (P1.4X3.0) | |
| 69 | 3-378-792-01 | SPRING, COMPRESSION | |
| 70 | 3-914-914-01 | GUIDE, TAPE | |
| * 71 | 3-914-913-01 | LEVER (PLAY) | |
| 72 | X-3368-585-1 | PINCH LEVER ASSY | |
| 73 | 3-350-945-11 | WASHER | |
| 74 | 3-914-902-01 | SPRING (P), TORSION | |
| 75 | 3-914-904-01 | SPRING (PFR), TORSION | |
| 76 | X-3368-584-1 | ARM (MIDWAY GEAR) ASSY | |
| 77 | 3-331-007-21 | WASHER | |
| 78 | 3-914-916-01 | ARM (CKAW DETECTION) | |
| 79 | X-3368-587-1 | REEL ASSY, S | |
| 80 | 3-914-907-01 | SPRING (MIDWAY GEAR), TORSION | |
| * 81 | X-3368-701-1 | CHASSIS (COMP.) ASSY (C), MECH | |
| HCB901 | 1-500-135-11 | HEAD, MAGNETIC (REC/PB/ERASE) | |
| M901 | 1-698-384-11 | MOTOR, DC | |

# SECTION 6
# ELECTRICAL PARTS LIST

**MAIN**

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:$\mu$, for example:
  uA..: $\mu$A.. uPA..: $\mu$PA..
  uPB..: $\mu$PB.. uPC..: $\mu$PC.. uPD..: $\mu$PD..
- CAPACITORS
  uF: $\mu$F
- COILS
  uH: $\mu$H

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| * | A-3016-592-A | MAIN BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C101 | 1-163-017-00 | CERAMIC CHIP | 0.0047uF | 5% | 50V |
| C102 | 1-163-035-00 | CERAMIC CHIP | 0.047uF | | 50V |
| C103 | 1-104-390-21 | ELECT | 1uF | 20% | 50V |
| C104 | 1-104-401-21 | ELECT | 100uF | 20% | 4V |
| C105 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C106 | 1-163-017-00 | CERAMIC CHIP | 0.0047uF | 5% | 50V |
| C107 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C108 | 1-163-034-00 | CERAMIC CHIP | 0.033uF | | 50V |
| C109 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C110 | 1-104-401-21 | ELECT | 100uF | 20% | 4V |
| C111 | 1-104-401-21 | ELECT | 100uF | 20% | 4V |
| C112 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C113 | 1-104-368-21 | ELECT | 10uF | 20% | 16V |
| C114 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C115 | 1-163-986-00 | CERAMIC CHIP | 0.027uF | 10% | 25V |
| C116 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C118 | 1-104-402-21 | ELECT | 220uF | 20% | 4V |
| C119 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C121 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C122 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C123 | 1-164-005-11 | CERAMIC CHIP | 0.47uF | | 25V |
| C124 | 1-104-355-21 | ELECT | 22uF | 20% | 6.3V |
| C125 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C126 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C127 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C128 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C401 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C402 | 1-163-017-00 | CERAMIC CHIP | 0.0047uF | 5% | 50V |
| C601 | 1-104-355-21 | ELECT | 22uF | 20% | 6.3V |
| C602 | 1-104-390-21 | ELECT | 1uF | 20% | 50V |
| C603 | 1-104-355-21 | ELECT | 22uF | 20% | 6.3V |
| C701 | 1-163-035-00 | CERAMIC CHIP | 0.047uF | | 50V |
| C702 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C703 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C704 | 1-104-368-21 | ELECT | 10uF | 20% | 16V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | < DIODE > | | | |
| D101 | 8-719-941-23 | DIODE | DA204U | | |
| D102 | 8-719-941-23 | DIODE | DA204U | | |
| D103 | 8-719-988-62 | DIODE | 1SS355 | | |
| D401 | 8-719-026-62 | DIODE | GL8PR42 (REC/BATT) | | |
| | | < IC > | | | |
| IC101 | 8-759-701-02 | IC | NJM2073M | | |
| IC601 | 8-759-804-43 | IC | LA5521M | | |
| IC701 | 8-759-701-51 | IC | NJM2072M | | |
| | | < JACK > | | | |
| J101 | 1-766-156-11 | JACK (MIC) | | | |
| J102 | 1-580-372-41 | JACK, DC (POLARITY UNIFIED TYPE) (DC IN 3V) | | | |
| J103 | 1-766-156-11 | JACK (EAR) | | | |
| | | < JUMPER RESISTOR > | | | |
| JR1 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR2 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR6 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR7 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR8 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR9 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR10 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR11 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR13 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| JR14 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR16 | 1-216-295-00 | METAL GLAZE | 0 | 5% | 1/10W |
| JR17 | 1-216-296-00 | METAL GLAZE | 0 | 5% | 1/8W |
| | | < TRANSISTOR > | | | |
| Q101 | 8-729-016-80 | TRANSISTOR | 2SC2412KLN-T146-R | | |
| Q102 | 8-729-920-74 | TRANSISTOR | 2SC2412K-QR | | |
| Q103 | 8-729-920-74 | TRANSISTOR | 2SC2412K-QR | | |
| Q401 | 8-729-402-84 | TRANSISTOR | XN4601 | | |
| Q601 | 8-729-420-20 | TRANSISTOR | XN4312 | | |
| Q701 | 8-729-402-96 | TRANSISTOR | UN5114 | | |
| Q702 | 8-729-402-32 | TRANSISTOR | 2SD1819A-R | | |
| Q703 | 8-729-402-32 | TRANSISTOR | 2SD1819A-R | | |

# MAIN

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | < RESISTOR > | | | |
| R101 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W F |
| R102 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W F |
| R103 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W F |
| R104 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W |
| R105 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W |
| R106 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R107 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R108 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W F |
| R109 | 1-249-399-11 | CARBON | 33 | 5% | 1/4W F |
| R110 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W F |
| R111 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W F |
| R112 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W |
| R113 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R114 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R115 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W |
| R116 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W |
| R117 | 1-216-308-00 | METAL CHIP | 4.7 | 5% | 1/10W |
| R118 | 1-216-009-00 | METAL CHIP | 22 | 5% | 1/10W |
| R119 | 1-216-017-00 | METAL CHIP | 47 | 5% | 1/10W |
| R120 | 1-249-408-11 | CARBON | 180 | 5% | 1/4W F |
| R121 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W F |
| R122 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W F |
| R123 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R124 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W |
| R125 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W F |
| R126 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W F |
| R127 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W F |
| R128 | 1-216-113-00 | METAL CHIP | 470K | 5% | 1/10W |
| R129 | 1-216-021-00 | METAL CHIP | 68 | 5% | 1/10W |
| R401 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R402 | 1-216-268-00 | METAL GLAZE | 820K | 5% | 1/8W |
| R403 | 1-249-408-11 | CARBON | 180 | 5% | 1/4W F |
| R404 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W F |
| R602 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W |
| R603 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R604 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W |
| R605 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R701 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R702 | 1-216-051-00 | METAL CHIP | 1.2K | 5% | 1/10W |
| R703 | 1-216-063-00 | METAL CHIP | 3.9K | 5% | 1/10W |
| R704 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R705 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R706 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W F |
| R707 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R708 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < VARIABLE RESISTOR > | |
| RV101 | 1-237-731-21 | RES, VAR, CARBON 10K (VOL) | |
| RV601 | 1-238-663-11 | RES, ADJ, CARBON 4.7K | |
| RV602 | 1-223-586-11 | RES, ADJ, CARBON 10K | |
| | | < SWITCH > | |
| S101 | 1-572-688-11 | SWITCH, PUSH (1 KEY) (POWER) | |
| S102 | 1-692-999-11 | SWITCH, SLIDE (REC/PB) | |
| S103 | 1-571-275-31 | SWITCH, SLIDE (PAUSE) | |
| S104 | 1-571-478-11 | SWITCH, SLIDE (TAPE SPPED) | |
| S105 | 1-571-506-41 | SWITCH, SLIDE (VOR) | |
| S106 | 1-571-275-31 | SWITCH, SLIDE (FAST PB) | |
| S107 | 1-572-688-11 | SWITCH, PUSH (1 KEY) (FF) | |
| | | < POSITIVE THERMISTOR > | |
| THP601 | 1-808-956-11 | THERMISTOR, POSITIVE | |
| THP602 | 1-809-757-11 | THERMISTOR, POSITIVE | |

**********

MISCELLANEOUS

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| | | | |
|---|---|---|---|
| HCB901 | 1-500-135-11 | HEAD, MAGNETIC (REC/PB/ERASE) | |
| M901 | 1-698-384-11 | MOTOR, DC | |
| MIC901 | 1-542-136-11 | MICROPHONE, ELECTRET CONDENSER | |
| SP901 | 1-544-657-12 | SPEAKER (3.6CM) | |

**********

ACCESSORIES & PACKING MATERIALS

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| | | | |
|---|---|---|---|
| | 1-528-523-11 | BATTERY, STORAGE, NI-CD (Cnadian) (M-677V) | |
| | 1-528-523-31 | BATTERY, NICKEL. CADMIUM (US) (M-677V) | |
| ⚠ | 1-528-405-11 | ADAPTOR, BATTERY CHARGE (Canadian) (M-677V) | |
| ⚠ | 1-528-405-21 | ADAPTOR, BATTERY CHARGE (US) (M-677V) | |
| ⚠ | 1-693-073-21 | ADAPTOR, AC (AC-E350) (M-677V) | |
| | 3-758-981-61 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (AEP) | |
| | 3-758-981-81 | MANUAL, INSTRUCTION (ENGLISH) (US, Canadian) | |
| | 3-758-981-91 | MANUAL, INSTRUCTION (FRENCH) (Canadian) | |
| | 3-758-981-71 | MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP) | |
| | 3-914-895-01 | CASE, CARRYING (AEP) | |
| * | 3-916-700-01 | INDIVIDUAL CARTON (M-627V:Canadian) | |
| * | 3-916-702-01 | INDIVIDUAL CARTON (M-627V:AEP) | |
| * | 3-916-728-01 | INDIVIDUAL CARTON (M-627V:E) | |
| * | 3-916-688-11 | CUSHION | |

| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

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